

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 10, line 10, with the following rewritten paragraph:

As previously discussed, the above-described synthesis procedure can be utilized to effectively control the location of the method and loading thereof within the colloidal particles. In an embodiment, the metal silicate solution and the silicic acid solution are selectively added to the heel to control the position of the metal within the solid phase of the colloid as desired. Both silicic acid solution and metal silicate solution can be added to the heel to initiate particle formation or to grow or otherwise increase the size of a pure silica particle initially added to the heel. For example, the metal silicate solution is added to the heel before the silicic acid solution in an embodiment. This addition sequence yields a metal containing silica colloid wherein the metal is dispersed in a core or interior layer of the colloidal particle. The subsequent addition of the silicic acid can be used to cover the interior metal-containing portion of the particle with a layer containing [[on]] silica without the metal.

Please replace the paragraph beginning on page 10, line 22, with the following rewritten paragraph:

Alternatively, the silicic acid solution can be added to the heel prior to the addition of the metal silicate solution in an embodiment. This addition sequence yields colloidal particles having a core or interior composed of silica. The metal silicate solution can then be added to coat the silica particle to produce a particle containing metal on an exterior surface or outer layer of the particle wherein the metal is dispersed within this particle layer. The skilled artisan will appreciate the myriad of possibilities available for the composition of the colloid solid phase. Addition of only the metal silicate solution to the heel can yield a colloid having a dispersion or distribution of metal within one or more of the colloidal particle particles as previously discussed. Adding the metal silicate solution and the silicic acid solution in an alternating

manner or a sequence such as metal silicate-silicic acid-metal silicate-silicic acid can yield a colloidal particle having a number of layers wherein metal containing layers are separated by layers containing silica and without a metal in an embodiment. It will be appreciated that the duration of silicic acid and/or metal silicate addition can be varied as desired to vary the width or thickness of each particle layer in the colloid. The multiple layered colloid particles of the present invention are generally spherical in shape and have an effective particle size of about 2 nm to about 1000 nm according to an embodiment.